

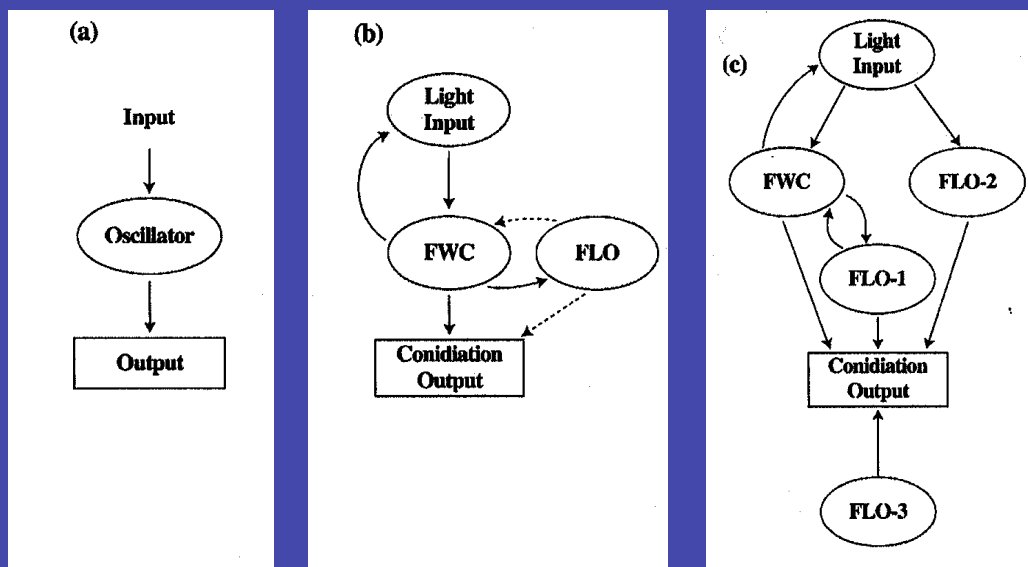
BIMM 116 / PSYCH 133 CIRCADIAN RHYTHMS - BIOLOGICAL CLOCKS

	(A) Cyano-bacteria	(B) Neurospora	(C) Drosophila	(D) Rodents
1) Endogenous	✓	✓	✓	✓
2) Free-running Period	24 hrs	22 hrs	24 - 25 hrs	24.1 hrs
3) Response to a pulse of light	Strong	Strong	Strong	Weak *
4) Temperature-Compensation	✓	✓	✓	Probably
5) Mutants	Long Short Arrhythmic	Long Short Arrhythmic	Long Short Arrhythmic	Long Short Arrhythmic
6) Molecular Circuitry	Kai A, B, C	<i>FRQ</i> , White Collar	Per, Tim, Others	Similar to Drosophila



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Lakin-Thomas, P.L. and Brody, S. 2004. Circadian rhythms in microorganisms: New complexities. *Ann Rev Microbiol*, 58: 491.



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